

Q1 2. (Amended) A biologically pure strain of *Acetobacter* sp. BC-Y058 (KCTC-0773BP).

Q2 10. (Amended) A pharmaceutical composition comprising at least one microorganism selected from the group consisting of *Acetobacter* sp., *Leuconostoc* sp., *Bacillus* sp., *Lactobacillus* BC-Y009, *Lactobacillus brevis*, *Lactobacillus helveticus*, *Lactobacillus bulgaricus*, *Lactobacillus casei*, *Lactobacillus kefir*, *Lactobacillus keriranofaciens*, *Lactobacillus bifidus*, *Lactobacillus sake*, *Lactobacillus reuteri*, *Lactobacillus lactis*, *Lactobacillus delbrueckii*, *Lactobacillus helveticusglucos* var. *jugurti*., *Streptococcus* sp., *Bifidobacterium* sp., *Lactococcus* sp. and *Pediococcus* sp. bacteria in an amount effective to prevent or treat diabetes mellitus and a pharmaceutically acceptable carrier, wherein the microorganism is capable of producing polysaccharide.

11. (Amended) The pharmaceutical composition according to claim 10, wherein said microorganism is selected from the group consisting of *Acetobacter* sp., *Lactobacillus* BC-Y009, *Lactobacillus brevis*, *Lactobacillus helveticus*, *Lactobacillus bulgaricus*, *Lactobacillus casei*, *Lactobacillus kefir*, *Lactobacillus keriranofaciens*, *Lactobacillus bifidus*, *Lactobacillus sake*, *Lactobacillus reuteri*, *Lactobacillus lactis*, *Lactobacillus delbrueckii*, *Lactobacillus helveticusglucos* var. *jugurti*., and *Lactococcus* sp. bacteria.

Q3 23. (Amended) A method for [preventing or] treating diabetes mellitus, comprising administering to a subject in need thereof a pharmaceutical composition comprising at least one microorganism selected from the group consisting of *Acetobacter* sp., *Leuconostoc* sp., *Bacillus* sp., *Lactobacillus* BC-Y009, *Lactobacillus brevis*, *Lactobacillus helveticus*, *Lactobacillus bulgaricus*, *Lactobacillus casei*, *Lactobacillus kefir*, *Lactobacillus keriranofaciens*, *Lactobacillus bifidus*, *Lactobacillus sake*, *Lactobacillus reuteri*, *Lactobacillus lactis*, *Lactobacillus delbrueckii*, *Lactobacillus helveticusglucos* var. *jugurti*., *Streptococcus* sp., *Bifidobacterium* sp., *Lactococcus* sp. and *Pediococcus* sp. bacteria in an amount effective to prevent or treat diabetes mellitus and a pharmaceutically acceptable carrier, wherein the microorganism is capable of producing polysaccharide.